

ENGWE M20

ENGWE M20 Electric Bike User Manual

Model: M20

1. INTRODUCTION

Thank you for choosing the ENGWE M20 Electric Bike. This manual provides essential information for the safe operation, maintenance, and care of your new e-bike. Please read it thoroughly before your first ride and keep it for future reference. Adhering to these instructions will ensure optimal performance and longevity of your ENGWE M20.



2. SETUP AND ASSEMBLY

The ENGWE M20 Electric Bike arrives 90% pre-assembled. Basic tools and installation instructions are provided to complete the setup. Key assembly steps include attaching the front wheel, headlamp, and fenders. Ensure all connections are secure before operation.

2.1 Unboxing and Initial Inspection

- Carefully remove the e-bike and all components from the packaging.
- Inspect for any visible damage during transit. Report any issues to customer support immediately.
- Verify all listed components are present: e-bike, kickstand, mudguards, user manual, charger, tool kit, and frame bag.

2.2 Component Assembly

- **Front Wheel Installation:** Securely attach the front wheel to the fork using the provided quick-release or axle nuts. Ensure the brake rotor aligns correctly with the caliper.
- **Headlamp Attachment:** Mount the dual LED headlamps to the designated points on the front fork. Connect the wiring harness.
- **Fender Installation:** Attach the front and rear mudguards using the provided brackets and screws.
- **Pedal Installation:** Identify left (L) and right (R) pedals. Thread them into the crank arms carefully. The left pedal threads counter-clockwise, and the right pedal threads clockwise.
- **Handlebar Adjustment:** Adjust the handlebar to a comfortable riding position and tighten all bolts securely.

After assembly, perform a thorough check of all bolts, nuts, and quick releases to ensure they are properly tightened. Inflate tires to the recommended pressure (refer to tire sidewall for details).

3. OPERATING INSTRUCTIONS

The ENGWE M20 Electric Bike offers a powerful and versatile riding experience. Familiarize yourself with its features for optimal control and enjoyment.

3.1 Power System

- **Motor:** Equipped with a 48V/750W brushless hub motor, peaking at 1000W with 55N.m torque, allowing for speeds up to 28 mph.
- **Battery:** Features a 48V 26Ah dual battery system, providing an extended range of up to 94 miles on a single charge.
- **Throttle:** The twist-grip throttle provides instant power, allowing for acceleration without pedaling. Use with caution, especially from a standstill.

Powerful Hub-Motor

Sustained 750W

1000W



Accelerate swiftly and slope roads with a 750W motor (1000W peak power).

The ENGWE M20 is equipped with a 48V/750W brushless motor, peaking at 1000W, providing strong acceleration and hill-climbing capability.

Never Meet Range Anxiety

Faster charging, more battery capacity

The range is
200%
longer than others.

M20 Electric mode

47 Miles+47 Miles

Other Electric mode

31 Miles

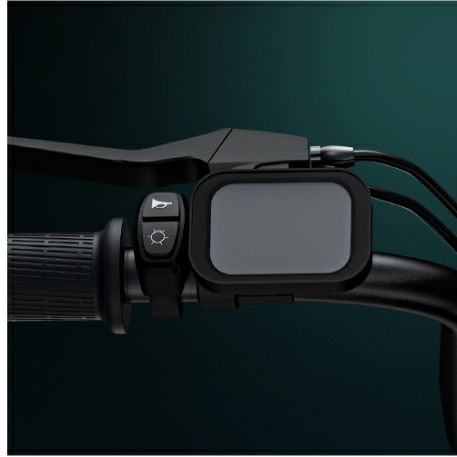
The dual-battery configuration of the ENGWE M20 allows for an extended range of up to 94 miles, reducing range anxiety for longer rides.

3.2 Display and Controls

- **Intelligent LCD Display:** Provides real-time data including power level, current speed, and mileage. The display is designed for clear visibility even in sunlight.
- **7-Speed Gears:** Utilize the 7-speed gear system for adapting to various riding conditions and terrains, optimizing pedaling efficiency.

Clear At A Glance

LCD screen,support real-time query riding data,speed,electric,quantity,mileage,etc.,even in the sun can be clearly displayed



The intelligent LCD display provides clear, real-time riding data, including speed, battery level, and mileage.

7-Speed Gears

Gearing is provided by a SHIMANO 7-speed derailleur which delivers reliable and accurate gear shifting,you bike has a drivetrain with quality components

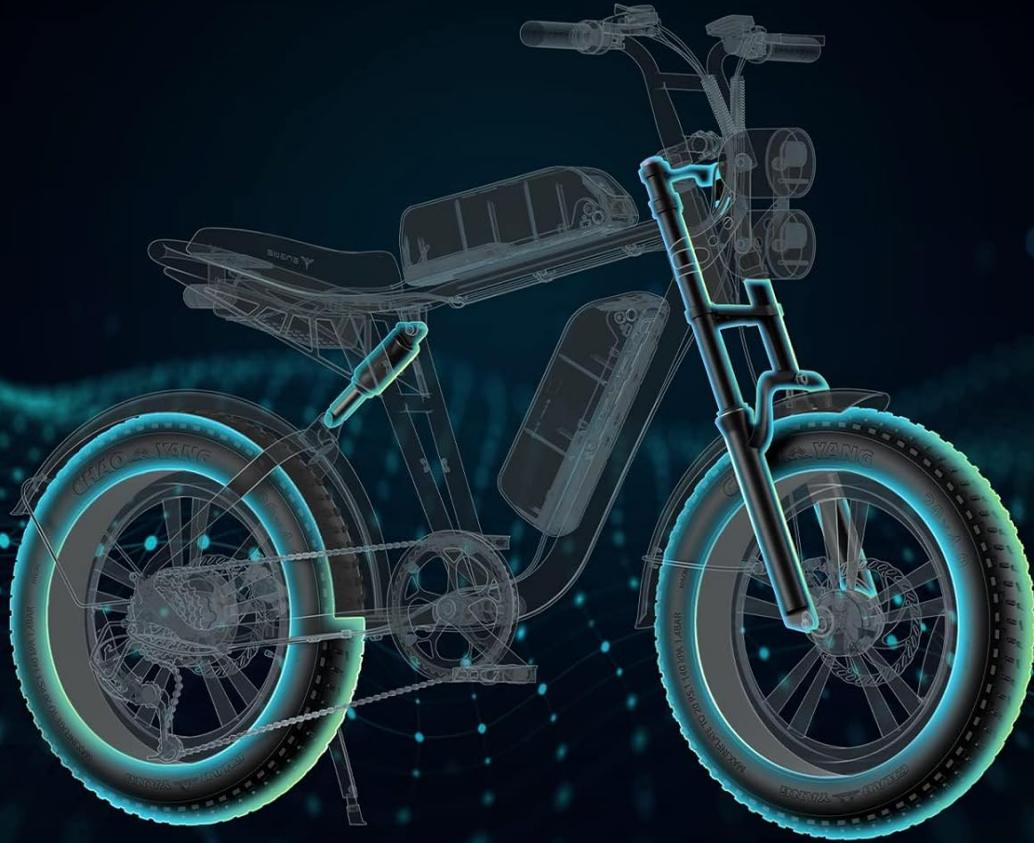


The 7-speed gear system allows riders to adjust pedaling effort and speed according to terrain and preference.

3.3 Ride Comfort and Safety

- **Full Suspension:** Features front hydraulic and rear air shocks for a comfortable ride, absorbing impacts on various terrains.
- **Fat Tires:** 20x4.0 inch fat tires provide excellent grip and stability, enhancing comfort and control on diverse surfaces.
- **Dual Disc Brakes:** Front and rear mechanical disc brakes ensure reliable stopping power.
- **Lighting:** Dual LED headlights and a rear brake light enhance visibility for safe riding, especially at night.
- **Low Noise Level:** Operates at a low noise level of approximately 30dB, ensuring a quiet and pleasant ride.

A Comfortable Ride Enjoy Miles After Miles



Dual shock systems extending from its front hydraulic shock to the rear air shock. 2 times more powerful shock absorbance than normal ebikes.

The ENGWE M20 features a full suspension system, including front hydraulic and rear air shocks, designed for a comfortable ride over various terrains.

Easily Tackle Extreme Terrain

Add further safety, control, and confidence for riders of all experience levels on/off-road in variable traction conditions.



With its robust design and fat tires, the ENGWE M20 is capable of handling diverse terrains, from smooth roads to off-road trails.

Dual Front Lights

Unique dual headlight design can light up the road for you at night, and alert passers-by and oncoming traffic, ensure the safety of cyclists riding at night



The unique dual headlight design provides excellent illumination for night riding and increases visibility to others.

Dual Disc Brakes

The front and rear wheels are equipped with a double disc brake system with fast heat dissipation design to ensure smooth braking and safe braking in emergency situations



The front and rear wheels are equipped with a double disc brake system for reliable and safe stopping in all conditions.

Three-layer Fat Tires

20X4.0' fat tires are made of imported rubber, carbon nano braided layer, butyl rubber inner tube. Three-layer design helps you to handle any terrain



The 20x4.0 inch fat tires feature a durable three-layer construction, providing superior handling across various terrains.

4. MAINTENANCE

Regular maintenance is crucial for the longevity and safe operation of your ENGWE M20 Electric Bike. Perform these checks periodically.

- **Tire Pressure:** Check tire pressure before each ride. Maintain recommended PSI (found on tire sidewall) for optimal performance and safety.
- **Brake Inspection:** Regularly check brake levers for proper tension and responsiveness. Ensure brake pads are not excessively worn.
- **Chain Lubrication:** Keep the chain clean and lubricated to ensure smooth gear changes and prevent rust.
- **Battery Care:** Charge the battery regularly, even if not in use, to maintain its health. Avoid fully discharging the battery. Store in a cool, dry place.
- **General Cleaning:** Clean the bike regularly with a damp cloth. Avoid high-pressure washing directly on electrical components.
- **Fastener Check:** Periodically inspect all bolts, nuts, and fasteners for tightness. Tighten as necessary.

5. TROUBLESHOOTING

If you encounter issues with your ENGWE M20, refer to these common troubleshooting tips. For persistent problems, contact customer support.

- **Bike Not Powering On:**

- Ensure the battery is fully charged and properly seated.
- Check that the power button on the battery and display are pressed.

- **Motor Not Engaging:**

- Verify the display is on and showing a power assist level.
- Check brake levers; some e-bikes have cut-off switches that disengage the motor when brakes are applied.
- Ensure all motor cable connections are secure.

- **Brakes Squealing:**

- Clean brake rotors and pads with a suitable brake cleaner.
- Brake pads may need to be re-aligned or replaced if worn.

- **Unusual Noises:**

- Inspect the chain for proper lubrication and tension.
- Check for loose components or debris in the drivetrain.

For any issues not covered here, or if problems persist, please contact our professional customer support team via email for further assistance.

6. SPECIFICATIONS

Detailed technical specifications for the ENGWE M20 Electric Bike.



1000W
Peak Power



28MPH
Max Speed



10° Hill-Climbing



Dual Suspensions



3 Color Options



47 Miles + 47 Miles
Max Range



20 X4.0 inch tires



48V 26Ah
Dual Batteries

An overview of the ENGWE M20's main specifications, highlighting its powerful motor, high speed, long range, and all-terrain features.

Dimension Reference

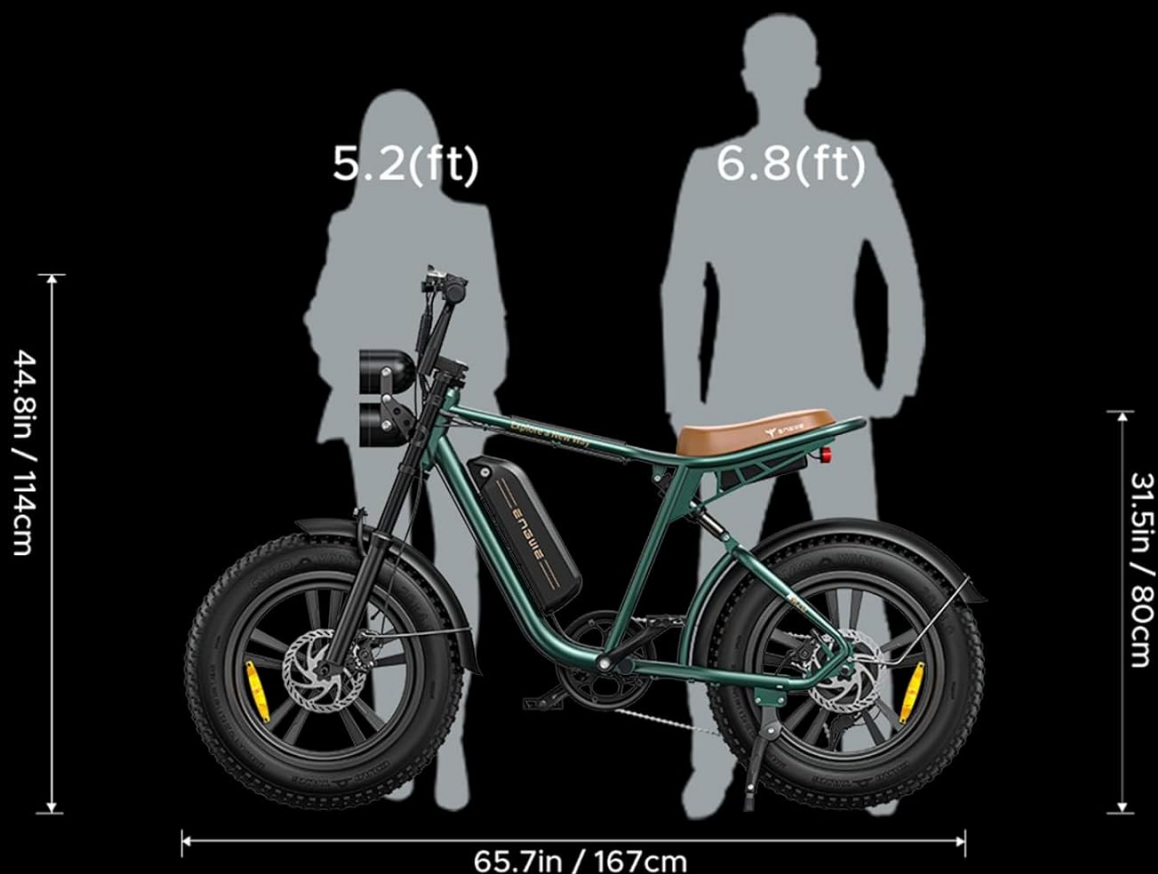
Easy to hop on & off accessible to all riders.



Load capacity
330lbs



Rider height
5.2(ft) - 6.8(ft)



This diagram provides a size reference for the ENGWE M20, indicating its dimensions and suitable rider height range (5.2 ft - 6.8 ft) and load capacity (330 lbs).



ENGWE M20-White



ENGWE M20-Black



ENGWE M20-Green



The ENGWE M20 Electric Bike is available in multiple color options: M20-White, M20-Black, and M20-Green.

Feature	Specification
Bike Type	Electric Bike
Model Name	M20
Motor	48V/750W Brushless (1000W Peak)
Torque	55N.m
Max Speed	28 mph
Battery	48V 26Ah Dual Battery
Max Range	Up to 94 Miles (Assist Mode)
Wheel Size	20 Inches
Tires	4.0" Fat Tires
Frame Material	Aluminum Alloy
Suspension Type	Dual (Front Hydraulic, Rear Air Shocks)
Brake Style	Disc (Mechanical Front & Rear)
Number of Speeds	7
Item Weight	41.5 Kilograms (approx. 91.5 lbs)
Max Weight Recommendation	264 Pounds
Minimum User Height	62 Inches
Certifications	UL 2849 Certified/GCC/GCC-CPSC-16CFR1512

7. WARRANTY AND SUPPORT

ENGWE is committed to providing reliable products and excellent customer service.

7.1 Warranty Information

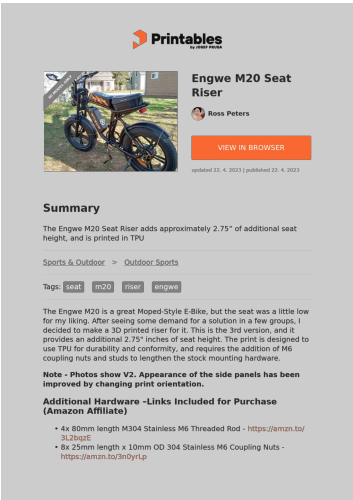
The ENGWE M20 Electric Bike comes with a **2-year manufacturer's limited warranty** covering the motor, battery, and controller. This warranty ensures that your product is free from defects in materials and workmanship under normal use during the warranty period. Please retain your proof of purchase for warranty claims.

7.2 Customer Support

For any questions, technical assistance, or warranty inquiries, our professional customer support team is available to help. Please contact us via email for prompt assistance.

For more information and to explore other ENGWE products, please visit the [ENGWE Store](#).

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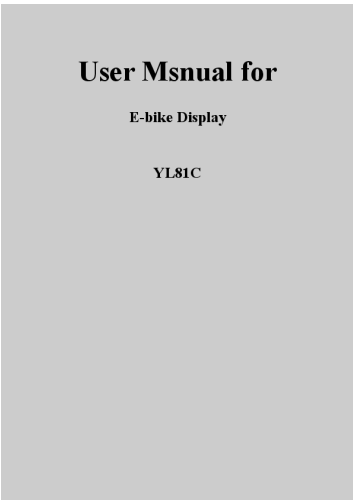
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ENGWE M20 Electric Bike User Manual

Comprehensive user manual for the ENGWE M20 electric bike, covering assembly, operation, instrument instructions, battery maintenance, and warranty information. lang:en **score:35** filesize: 16.23 M page_count: 13 document date: 2025-06-25

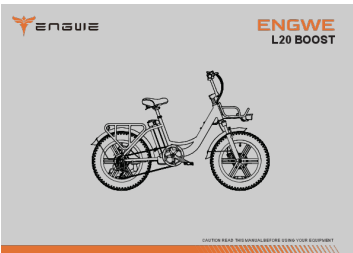


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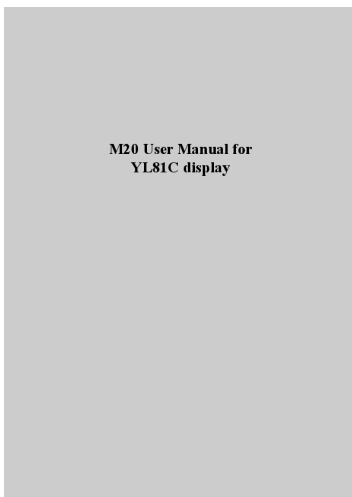
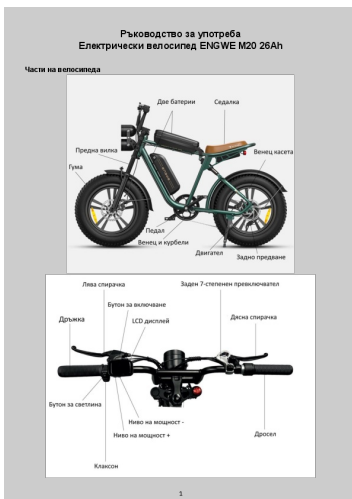
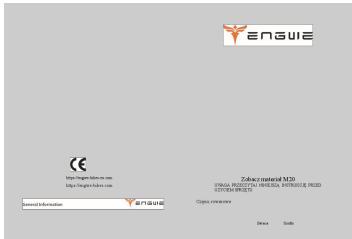
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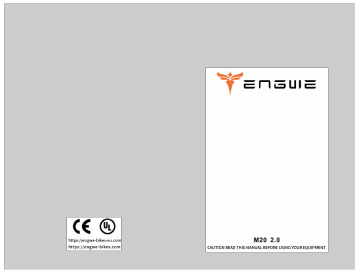
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M20 User Manual for YL81C Display

User manual for the M20 display with YL81C, detailing function overview, general operation, settings, and error codes for e-bike use.
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Global Market Messe Frankfurt Inspired by automotive power principles we design unique high quality and cost effective electric bicycles offering more ENGWE M20 2 0 Double Is 1745584599950 368862251 exhibitorsearch messefrankfurt images original document 10000795202501 448837 ||| Table of Contents 01 Company Introduction 02 Global Market 03 04 Brand Influence Product Layout ... lic Disc Brakes 20 x 3.0 Inch Puncture-resistant Tires 200KG Cargo Weight Product Layout ENGWE **M20** 2.0 Double Is Better Than Single 52V 15.6Ah Dual Battery System Brighter and Safer 1200W Moto...

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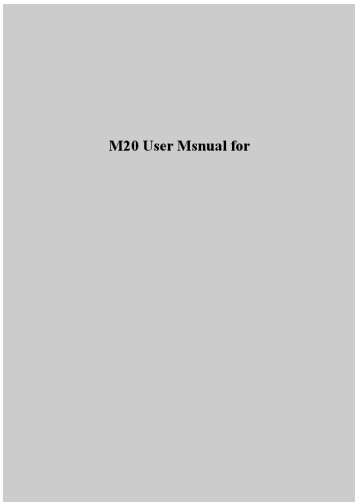
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1.1 Function overview Display **M20** provides a variety of functions to meet the riding needs of users, including: Battery level ind...

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[M20 E-bike Display User Manual](#)

This user manual provides detailed instructions for operating and customizing the M20 e-bike display, including function overviews, general operation, settings, and error code definitions.

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E-bike Display

YL81C

[User Manual for E-bike Display YL81C](#)

This user manual provides a comprehensive guide to the YL81C E-bike Display, covering its functions, operation, settings, and error codes. Learn how to navigate the display interface, adjust assist levels, customize settings, and troubleshoot common issues.

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M20
ELECTRIC BIKE WITH 750W MOTOR, 20" WHEELS, 48V 13Ah BATTERY

M20 User Manual for YL81C display

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ENGWE M20 Electric Bike User Manual



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Comprehensive user manual for the ENGWE M20 electric bike, covering assembly, operation, maintenance, and warranty information. Learn about bike components, instrument instructions, battery care, and troubleshooting.

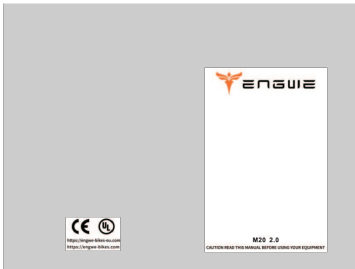
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